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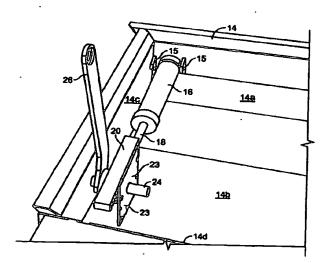
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
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Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: DRIVE APPARATUS FOR A MOBILITY ACCESS DEVICE



(57) Abstract: A linear drive system for reversibly operating a wheelchair ramp or other mobility access device is provided. The drive system for the mobility access device includes an actuator and a drive apparatus coupled thereto for moving the access device or portion thereof The actuator, which may be a hydraulic cylinder, electric actuator or the like, has a linearly moving arm that cooperates with the drive apparatus including a gear rack and a spur gear. The gear rack is coupled to the moving arm and mates with the spur gear that rotates on a shaft in response to the linear movement of the moving arm. A drive link is coupled with the spur gear for pivoting about the shaft to deploy and stow the access device.

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 018778-9206-WO00	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2004/033643	International filing date (day/month/year) 12 October 2004 (12.10.2004)	Priority date (day/month/year) 21 October 2003 (21.10.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant THE BRAUN CORPORATION				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	. This report contains indications relating to the following items:				
	Box No. I	Box No. I Basis of the report			
	Box No. II	Box No. II Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the inter	national application		
	Box No. VIII	Certain observations on th	e international application		
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 24 April 2006 (24.04.2006)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		nbettes	Authorized officer Nora Lindner		
Facsin	Facsimile No. +41 22 740 14 35 Telephone No. +41 22 338 89 65		Telephone No. +41 22 338 89 65		

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the						
INTERNATIONAL SEARCHI	NG AUTH	ORITY			REC'D 195	EP 200
To: MARTIN L. STERN				\mathbb{PCT}		- ZUU
MICHAEL BEST & FRIEDR	JCH LLP				WIPO	
401 N. MICHIGAN AVENUI	Е		WRITTEN OPINION OF THE			
SUITE 1900 CHICAGO, IL 60611			INTERNATIO	ONAL SEARCHIN	IG AUTHORIT	ľY
				(PCT Rule 43bis.	1)	
			Date of mailing	150	SEP 2005	
Applicant's or agent's file refe	erence		(day/month/year) FOR FURTHER		<u> </u>	—-
018778-9206WO00		•	See paragraph 2 below			
International application No.		International filing date	e (day/month/year) Priority date (day/month/year)			
PCT/US04/33643		12 October 2004 (12.10.		21 October 2003 (21.	10.2003)	
International Patent Classifica	tion (IPC)	or both national classificati	on and IPC			-
IPC(7): A61G 3/06 and US Cl Applicant	l.: 414/537					
THE BRAUN CORPORATION	<u>ON</u>					
1. This opinion contains ind	ications rel	ating to the following item	s:			
Box No. I Basis of the opinion						
Box No. II	Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV	Box No. IV Lack of unity of invention			1		
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI	Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application						
Box No. VIII	Certain obs	ervations on the internation	nal application			
2. FURTHER ACTION						
If a demand for internati International Preliminary Authority other than this	ional prelin Examining one to be	ninary examination is mad ig Authority ("IPEA") ex the IPEA and the chosen onal Searching Authority	cept that this does IPEA has notified th	not apply where the le International Bureau	applicant choose	s an
IPEA a written reply toge	ether, wher	e, considered to be a write e appropriate, with amend expiration of 22 months fro	ments, before the exp	piration of 3 months from	om the date of ma	
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing address of the ISA/ US Authorized officer						
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Eileen Lillis	ermith fo	\sim		
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Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/33643

Box No. I Basis of this opinion			
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which was filed, unless otherwise indicated under this item.	it		
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	,		
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
a. type of material			
a sequence listing			
table(s) related to the sequence listing			
b. format of material			
in written format			
in computer readable form			
c. time of filing/furnishing			
contained in international application as filed.			
filed together with the international application in computer readable form.			
furnished subsequently to this Authority for the purposes of search.			
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	l ;		
4. Additional comments:			
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Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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International application No. PCT/US04/33643

Box No. V Reasoned statement under Rule applicability; citations and expl	e 43 bis.1(a)(i) with regard to novelty, inventi anations supporting such statement	ve step or industrial
1. Statement		
Novelty (N)	Claims 7-9 and 26-28	YES
	Claims 1-6,10-25,29-34	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-34	NO
Industrial applicability (IA)	Claims 1-34	YES
	Claims NONE	NO
2. Citations and explanations:		
Claims 1-6, 10-25, and 29-34 lack novelty under PC Re claims 1-6, 10-25, and 29-34, Fontecchio teaches 56 and linkages 80,78.	T Article 33(2) as being anticipated by Fontecchio (a wheels chair ramp with a linear actuator 100, gear	US 4,909,700). rack 86, complimentary gear
Re claims 7-9,26-28, it would have been obvious to	le 33(3) as being obvious over Fontecchio (US 4,905) one of ordinary skill in the art at the time the inventi ed in order to get the necessary spacing and travel pa	on was made to have modified
Claims 1-34 meet the criteria set out in PCT Article be made or used in industry.	33(4), and thus have industrial applicability because	the subject matter claimed can
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Form PCT/ISA/237 (Box No. V) (January 2004)